Date: Sat, 25 Dec 93 02:39:05 PST
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #1508
To: Info-Hams

Info-Hams Digest Sat, 25 Dec 93 Volume 93 : Issue 1508

Today's Topics:
286 Chip Socket needed.
Daily Summary of Solar Geophysical Activity for 24 December
HDN Releases
Repeater database?
Weekly Solar Terrestrial Forecast & Review for 23 December

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 23 Dec 1993 01:52:31 -0500
From: library.ucla.edu!europa.eng.gtefsd.com!howland.reston.ans.net!cs.utexas.edu!
swrinde!sgiblab!wetware!spunky.RedBrick.COM!psinntp!starcomm.overleaf.com!
kb2ear.ampr.org!not-for-mail@galaxy.ucr.edu
Subject: 286 Chip Socket needed.
To: info-hams@ucsd.edu

I am in need of a socket the will hold a 286 CPU. I need to extend the
plug for an addon board. Does anyone know where I might find/order one?

Thanks,
--
Scott R. Weis KB2EAR
Internet: kb2ear@kb2ear.ampr.org
Snail Mail: 10 Palmer Rd., Kendall Park, NJ, 08824-1228
Phone: +1 908 297 0469

Date: Fri, 24 Dec 1993 22:15:23 MST
From: library.ucla.edu!news.mic.ucla.edu!unixg.ubc.ca!nntp.cs.ubc.ca!alberta!
nebulus!ve6mgs!usenet@network.ucsd.edu
Subject: Daily Summary of Solar Geophysical Activity for 24 December
To: info-hams@ucsd.edu

/\

DAILY SUMMARY OF SOLAR GEOPHYSICAL ACTIVITY

24 DECEMBER, 1993

/\

(Based In-Part On SESC Observational Data)

** MERRY CHRISTMAS **

SOLAR AND GEOPHYSICAL ACTIVITY INDICES FOR 24 DECEMBER, 1993

!!BEGIN!! (1.0) S.T.D. Solar Geophysical Data Broadcast for DAY 358, 12/24/93
10.7 FLUX=111.2 90-AVG=098 SSN=117 BKI=2122 2322 BAI=007
BGND-XRAY=B4.0 FLU1=1.5E+06 FLU10=1.2E+04 PKI=2123 3322 PAI=008
BOU-DEV=015,008,017,013,015,020,010,011 DEV-AVG=013 NT SWF=02:016
XRAY-MAX= M1.3 @ 1507UT XRAY-MIN= B2.5 @ 0222UT XRAY-AVG= C1.1
NEUTN-MAX= +002% @ 2155UT NEUTN-MIN= -002% @ 1710UT NEUTN-AVG= -0.0%
PCA-MAX= +0.1DB @ 1425UT PCA-MIN= -0.5DB @ 1005UT PCA-AVG= -0.0DB
BOUTF-MAX=55362NT @ 0023UT BOUTF-MIN=55341NT @ 1841UT BOUTF-AVG=55351NT
GOES7-MAX=P:+000NT@ 0000UT GOES7-MIN=N:+000NT@ 0000UT G7-AVG=+064,+000,+000
GOES6-MAX=P:+128NT@ 1813UT GOES6-MIN=N:-068NT@ 0636UT G6-AVG=+087,+022,-029
FLUXFCST=STD:115,117,120;SESC:115,117,120 BAI/PAI-FCST=005,005,010/005,007,010
KFCST=1122 2111 1223 2211 27DAY-AP=004,004 27DAY-KP=2100 1212 1101 2211
WARNINGS=*SWF
ALERTS=**MINFLR:M1.3/1N@1507,N08E29(7640);**245STRM:0402-1540UTC;
**MINFLR:M1.1/1N@1815,N07E20(7640)
!!END-DATA!!

NOTE: The Effective Sunspot Number for 23 DEC 93 is not available.
The Full Kp Indices for 23 DEC 93 are: 2- 3- 1+ 3- 3- 2+ 2- 3+

SYNOPSIS OF ACTIVITY

Solar activity was moderate. Region 7640 (N08E21)
produced two M1/1N flares maxing at 1507Z and 1815Z. No radio

activity was reported with these two flares. Numerous C-class flaring has also occurred in this region over the past 24 hours. White light observations indicate 7640 has nearly doubled in spot number and has grown significantly in area with rapid penumbra development throughout the region. Two new Regions were numbered overnight -- Rgn 7642 (N10W20) and Rgn 7643 (S16E69). All other regions were stable. One other item of note to pass on: just minutes ago, Santa Claus was positively identified on radar leaving the polar cap and passing through the auroral oval. Any minor disturbances in ionospheric signatures should be attributed to this seasonal phenomenon.

Solar activity forecast: solar activity is expected to be moderate. Continued development in Region 7640 should produce more M-class activity with a slight chance of X-class activity.

STD: Big Bear reported new positive polarity flux emerging just slightly southwest of the main negative polarity leader flux. If this feature persists, it could result in additional C and M class flare activity and may even possibly provide a mechanism for a stronger event. This region now encompasses an impressive 73 spots and is bright in x-rays, as illistrated in the appended full-disk Yohkoh x-ray image. A small and potentially mildly geoeffective southern hemisphere coronal hole crossed the central meridian over the last 24 to 36 hours. Although it is still difficult to discern, there appears to be a moderately large coronal hole to the east and north of Region 7640, just now rotating into view.

The geomagnetic field has been at quiet to unsettled levels for the past 24 hours.

Geophysical activity forecast: the geomagnetic field is expected to be mostly quiet.

Event probabilities 25 dec-27 dec

Class M	60/65/70
Class X	05/10/10
Proton	01/05/05
PCAF	Green

Geomagnetic activity probabilities 25 dec-27 dec

A. Middle Latitudes	
Active	10/10/15
Minor Storm	05/05/05

Major-Severe Storm 01/01/01

B. High Latitudes
Active 10/10/15
Minor Storm 05/05/10
Major-Severe Storm 01/01/01

STD: HF propagation conditions have not changed over the last 24 hours. High and polar latitude regions continued to observe occasional periods of minor signal degradation (poor propagation). Middle and low latitudes experienced near-normal propagation. There was a confirmed minor SWF on frequencies as high as approximately 10 to 12 MHz at about 18:15 UTC. No changes are expected over the next 72 hours. SWF activity will remain quite possible over daylit paths throughout the next several days.

COPIES OF JOINT USAF/NOAA SESC SOLAR GEOPHYSICAL REPORTS

REGIONS WITH SUNSPOTS. LOCATIONS VALID AT 24/2400Z DECEMBER

NMBR	LOCATION	LO	AREA	Z	LL	NN	MAG TYPE
7635	N02W57	276	0000	AXX	00	001	ALPHA
7640	N08E21	198	0510	FKI	21	073	BETA-GAMMA
7641	N04E20	199	0100	HSX	02	001	ALPHA
7642	N11W20	239	0010	BXO	03	002	BETA
7643	S16E69	150	0000	AXX	01	002	ALPHA

REGIONS DUE TO RETURN 25 DECEMBER TO 27 DECEMBER

NMBR	LAT	LO
7633	S18	090

LISTING OF SOLAR ENERGETIC EVENTS FOR 24 DECEMBER, 1993

A. ENERGETIC EVENTS:

BEGIN	MAX	END	RGN	LOC	XRAY	OP	245MHZ	10CM	SWEEP
1411	1415	1425			C1.4		120		
1450	1507	1516	7640	N08E29	M1.3	1N			
1803	1815	1824	7640	N07E20	M1.1	1N			

POSSIBLE CORONAL MASS EJECTION EVENTS FOR 24 DECEMBER, 1993

BEGIN	MAX	END	LOCATION	TYPE	SIZE	DUR	II	IV

NO EVENTS OBSERVED

INFERRED CORONAL HOLES. LOCATIONS VALID AT 24/2400Z

ISOLATED HOLES AND POLAR EXTENSIONS

	EAST	SOUTH	WEST	NORTH	CAR	TYPE	POL	AREA	OBSN
55	N23E86	S30E86	N10E38	N28E46	169	ISO	NEG	028	10830A

SUMMARY OF FLARE EVENTS FOR THE PREVIOUS UTC DAY

Date	Begin	Max	End	Xray	Op	Region	Locn	2695 MHz	8800 MHz	15.4 GHz
23 Dec:	0008	0012	0014	C1.4	SF	7640	N07E42			
	0018	0021	0024	C1.1	SF	7640	N07E41			
	0143	0149	0151	B6.2						
	0235	0238	0240	B6.0						
	0255	0300	0304	B5.5	SF	7640	N07E39			
	0425	0429	0431	B5.0						
	0526	0531	0533	C4.4	SF	7640	N07E38	75	330	310
	0556	0603	0619	B8.8						
	0733	0743	0749	C1.0						
	0805	0813	0816	B9.0						
	0840	0841	0850		SF	7640	N06E42			
	0856	0904	0907	C2.9	SF	7640	N07E37	32	96	66
	0950	0954	0956	C1.2	SF	7640	N07E37			
	1136	1139	1143	B4.3						
	1144	1150	1157	B6.9						
	1232	1236	1239	C2.9						
	1241	1245	1251	C1.9	SF	7640	N07E37			
	1305	1306	1317		SF	7640	N04E37			
	1437	1444	1454	C2.0	SF	7640	N05E34			
	1615	1623	1633	C2.9	SF	7640	N03E43			
	B2031	U2031	2033		SF	7640	N05E36			
	2254	2320	2352	C3.1	SF	7640	N06E31			150

REGION FLARE STATISTICS FOR THE PREVIOUS UTC DAY

	C	M	X	S	1	2	3	4	Total	(%)
Region 7640:	9	0	0	13	0	0	0	0	013	(59.1)
Uncorrellated:	2	0	0	0	0	0	0	0	009	(40.9)

Total Events: 022 optical and x-ray.

EVENTS WITH SWEEPS AND/OR OPTICAL PHENOMENA FOR THE LAST UTC DAY

Date	Begin	Max	End	Xray	Op	Region	Locn	Sweeps/Optical Observations
23 Dec:	0018	0021	0024	C1.1	SF	7640	N07E41	III
	0255	0300	0304	B5.5	SF	7640	N07E39	III
	0526	0531	0533	C4.4	SF	7640	N07E38	III

NOTES:

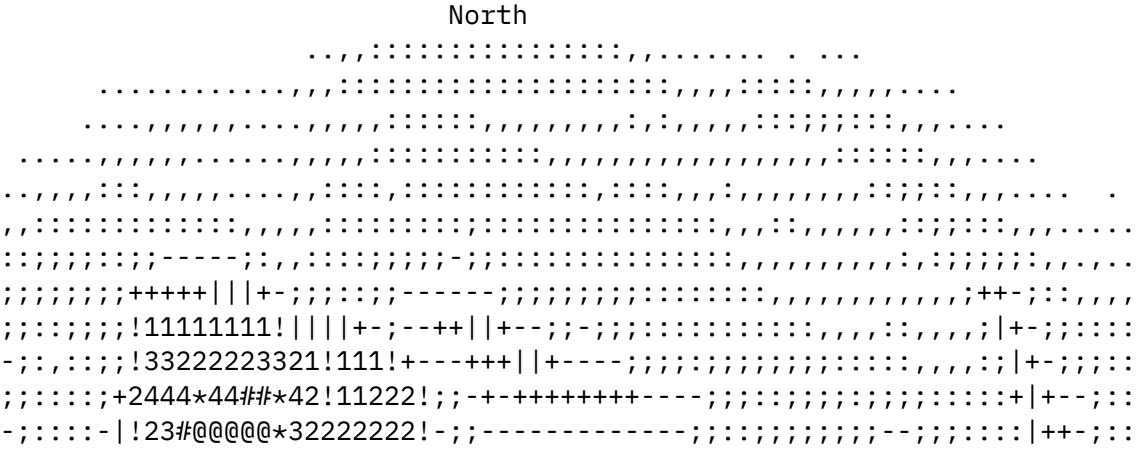
All times are in Universal Time (UT). Characters preceding begin, max, and end times are defined as: B = Before, U = Uncertain, A = After. All times associated with x-ray flares (ex. flares which produce associated x-ray bursts) refer to the begin, max, and end times of the x-rays. Flares which are not associated with x-ray signatures use the optical observations to determine the begin, max, and end times.

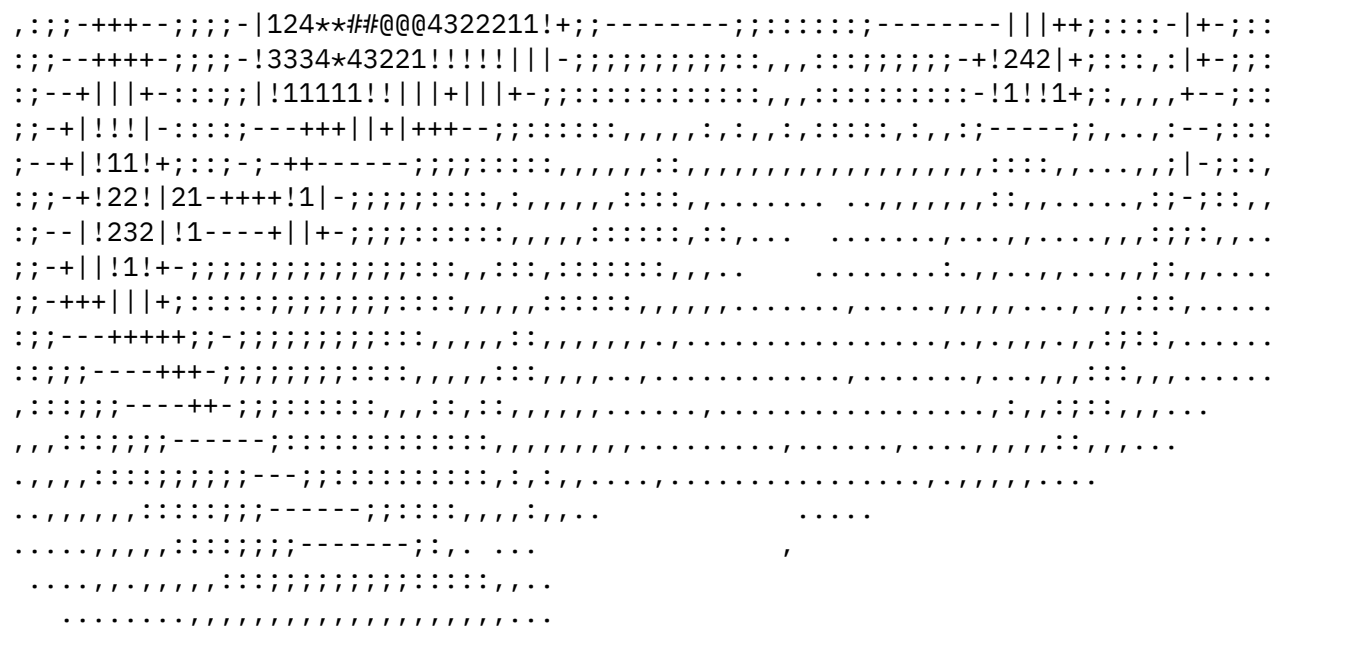
Acronyms used to identify sweeps and optical phenomena include:

II	= Type II Sweep Frequency Event
III	= Type III Sweep
IV	= Type IV Sweep
V	= Type V Sweep
Continuum	= Continuum Radio Event
Loop	= Loop Prominence System,
Spray	= Limb Spray,
Surge	= Bright Limb Surge,
EPL	= Eruptive Prominence on the Limb.

SPECIAL INSERT: CURRENT X-RAY EMISSIONS FROM THE JAPANESE YOHKOH SPACECRAFT
===

24 December 1993, 05:40 UTC





South

KEY: East and west limbs are to the left and right respectively. Emission
strength, from minimum to maximum are coded in the following way:

[space] . , : ; - + | ! 1 2 3 4 * # @

Units used are arbitrary, for illustrative purposes. Get "showasc.zip"
from "pub/solar/Software" at the anonymous FTP site: ftp.uleth.ca
(IP # 142.66.3.29) to view these images on VGA screens.

** End of Daily Report **

Date: Wed, 22 Dec 1993 09:13:05
From: library.ucla.edu!europa.eng.gtefsd.com!news.umbc.edu!eff!news.kei.com!
news.oc.com!utacfd.uta.edu!rwsys!ocitor!FredGate@network.ucsd.edu
Subject: HDN Releases
To: info-hams@ucsd.edu

The following files were processed Wednesday 12-22-93:

HAMNEWS [HAM: Bulletins and Newsletters]

ARLB117.LZH (687 bytes) ARRL Bulletin 12/20/93

```
RTDX1217.LZH (   2323 bytes)  RTTY DX Bulletin 12/17/93

------------------------------------------------------------------------
               3010 bytes in 2 file(s)


HAMPACK   [ HAM: Packet Communications programs ]
------------------------------------------------------------------------
140XPCOM.ZIP ( 623973 bytes)  V1.4 Packet program W/enhanced
                              features by KF7XP
HAMCOM.ZIP   (  76121 bytes)  Packet program for pk232 w/voice
                              synthesizer output by AE6G
TFPCX210.ZIP ( 153233 bytes)  TFPCX v2.1 - The Firmware PC
                              Extented by DG0FT    Resident AX.25
                              -Controller for PC and BayCom Modem
                               USCC-Board, KISS, with WA8DED Host
                              mode Interface

------------------------------------------------------------------------
             853327 bytes in 3 file(s)


HAMSAT    [ HAM: Satellite tracking and finding programs ]
------------------------------------------------------------------------
AMSAT351.LZH (   4775 bytes)  AMSAT Bulletin # 351 12/18/93
ARLK053.LZH  (   1925 bytes)  ARRL Keps 12/118/93
OBS351.LZH   (   4083 bytes)  Amsat Orbital Elements # 351
                              12/17/93
SPC1220.LZH  (   2825 bytes)  SPACE Bulletin 12/20/93

------------------------------------------------------------------------
              13608 bytes in 4 file(s)


 Total of 869945 bytes in 9 file(s)

Files are available via Anonymous-FTP from ftp.fidonet.org
IP NET address 140.98.2.1

    Directories are:
         pub/fidonet/ham/hamnews  (Bulletins)
                        /hamant   (Antennas)
                        /hamsat   (Sat. prg/Amsat Bulletins)
                        /hampack  (Packet)
                        /hamelec  (Formulas)
                        /hamtrain (Training Material)
                        /hamlog   (Logging Programs)
                        /hamcomm  (APLink/JvFax/Rtty/etc)
```

```
                        /hammods  (Equip modification)
                        /hamswl   (SWBC Skeds/Frequencies)
                        /hamscan  (Scanner Frequencies)
                        /hamutil  (Operating aids/utils)
                        /hamsrc   (Source code to programs)
                        /hamdemo  (Demos of new ham software)
                        /hamnos   (TCP/IP and NOS related software)

Files may be downloaded via land-line at (214) 226-1181 or (214) 226-1182.
1.2 to 16.8K, 23 hours a day .

When ask for Full Name, enter:    Guest;guest   <return>

lee - wa5eha
Ham Distribution Net


 * Origin: Ham Distribution Net Coordinator / Node 1 (1:124/7009)

------------------------------

Date: Sat, 25 Dec 1993 00:07:54 GMT
From: swrinde!cs.utexas.edu!math.ohio-state.edu!darwin.sura.net!perot.mtsu.edu!
raider!theporch!jackatak!martinbw@network.ucsd.edu
Subject: Repeater database?
To: info-hams@ucsd.edu

mkb@cs.cmu.edu (Mike Blackwell) writes:

>
> Is a database of (US) repeaters available (for free or licensable)?
> Something like what's used to generate the ARRL repeater directory
> is what I'm interested in - presumably it's in some electronic form
> already. Any leads greatly appreciated.
>
>   Mike Blackwell  --  ke3ig  --  mkb@cs.cmu.edu
>
>

I have asked for this info before without a response. I am also
interested in this information. I still buy the repeater directory but
would like to also have an electronic eddition to make a custom sheet of
repeaters for a trip.

73 de Bruce/KQ4TV

**************************************************************************
* Bruce W. Martin             Internet: martinbw@jackatak.raider.net    *
```

* 4558 Brooke Valley Dr.   AOL: Dragon16   *
* Hermitage TN 37076-2650   HAM Call: KQ4TV   *
* Voice: (615) 872-9942 Work: (615) 244-2022   *
* FAX/MODEM: (615) 885-4182   *
****

Date: Thu, 23 Dec 1993 18:08:02 MST
From: library.ucla.edu!news.mic.ucla.edu!unixg.ubc.ca!nntp.cs.ubc.ca!alberta!
adec23!ve6mgs!usenet@network.ucsd.edu
Subject: Weekly Solar Terrestrial Forecast & Review for 23 December
To: info-hams@ucsd.edu

--- SOLAR TERRESTRIAL FORECAST AND REVIEW ---

December 24, 1993 to January 02, 1994

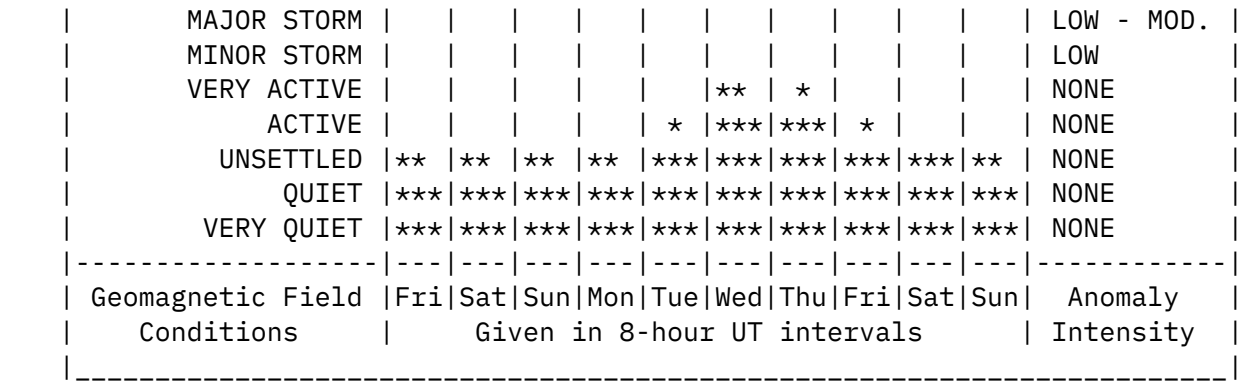
Report Released by Solar Terrestrial Dispatch
P.O. Box 357, Stirling, Alberta, Canada
T0K 2E0
Accessible BBS System: (403) 756-3008

SOLAR AND GEOPHYSICAL ACTIVITY FORECASTS AT A GLANCE

	10.7 cm	HF Propagation						SID				AU.BKSR				DX	Mag	Aurora		
	SolrFlx	LO	MI	HI	PO	SWF	%MUF	%	ENH	LO	MI	HI	LO	MI	HI	%	K Ap	LO	MI	HI
24	107	G	G	F	F	40	-10	70	35	NA	NA	NA	00	05	15	30	2 10	NV	NV	LO
25	110	G	G	F	F	40	-10	70	35	NA	NA	NA	00	05	15	30	2 07	NV	NV	LO
26	112	G	G	F	F	50	-10	70	40	NA	NA	NA	01	10	20	30	2 07	NV	NV	LO
27	115	G	G	F	F	50	-10	70	40	NA	NA	NA	01	10	20	30	2 10	NV	NV	LO
28	115	G	G	P	F	50	-10	65	40	NA	NA	NA	02	15	25	30	3 15	NV	NV	MO
29	118	G	G	VP	P	50	-25	65	40	NA	NA	NA	03	20	35	25	4 25	NV	LO	MO
30	120	G	G	P	P	50	-20	65	40	NA	NA	NA	02	15	30	25	4 20	NV	LO	MO
31	120	G	G	P	P	50	-15	65	40	NA	NA	NA	02	10	25	30	3 12	NV	NV	MO
	Happy New Year																			
01	120	G	G	F	F	50	-10	65	40	NA	NA	NA	02	05	15	30	3 10	NV	NV	LO
02	115	G	G	F	F	40	-10	65	30	NA	NA	NA	02	05	15	30	2 08	NV	NV	LO

PEAK PLANETARY 10-DAY GEOMAGNETIC ACTIVITY OUTLOOK (24 DEC - 02 JAN)

EXTREMELY SEVERE										HIGH
VERY SEVERE STORM										HIGH
SEVERE STORM										MODERATE

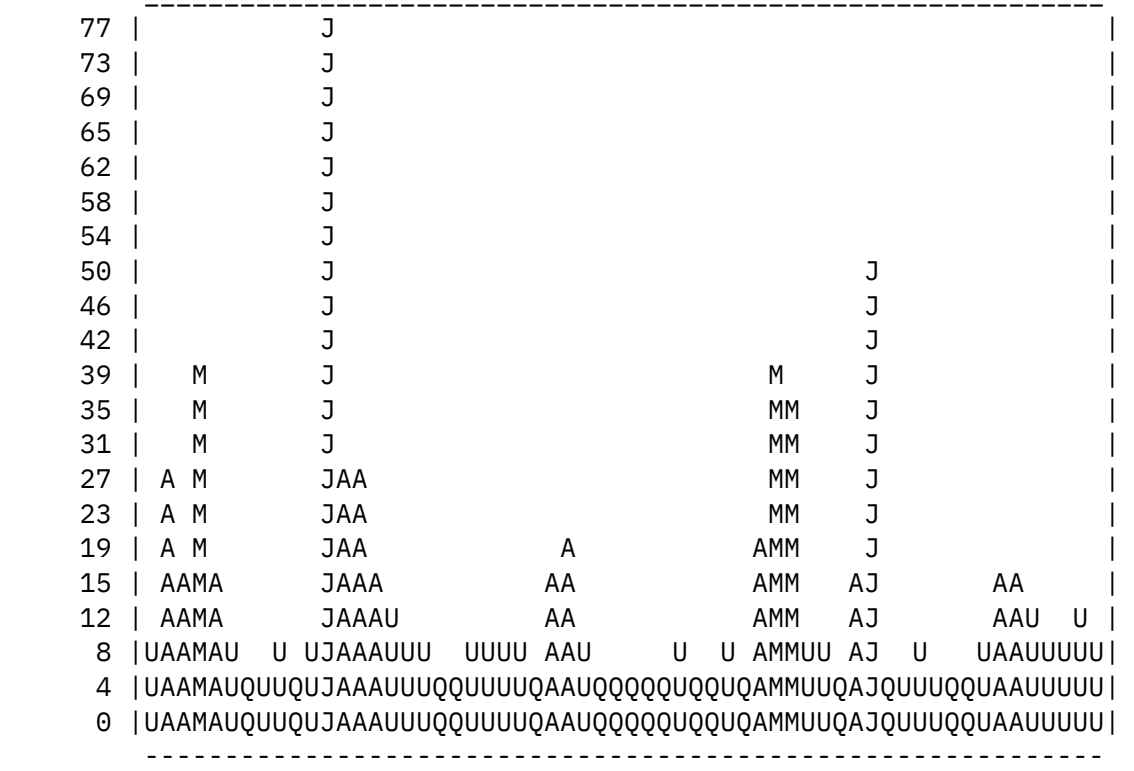


CONFIDENCE LEVEL: 70%

NOTES:

Predicted geomagnetic activity is based heavily on recurrent phenomena. Transient energetic solar events cannot be predicted reliably over periods in excess of several days. Hence, there may be some deviations from the predictions due to the unpredictable transient solar component.

60-DAY GRAPHICAL ANALYSIS OF GEOMAGNETIC ACTIVITY



NOTES:
This graph is determined by plotting the greater of either the planetary A-index or the Boulder A-index. Graph lines are labelled according to the severity of the activity which occurred on each day. The left-hand column represents the associated A-Index for that day.
Q = Quiet, U = Unsettled, A = Active, M = Minor Storm,
J = Major Storm, and S = Severe Storm.

CUMULATIVE GRAPHICAL CHART OF THE 10.7 CM SOLAR RADIO FLUX

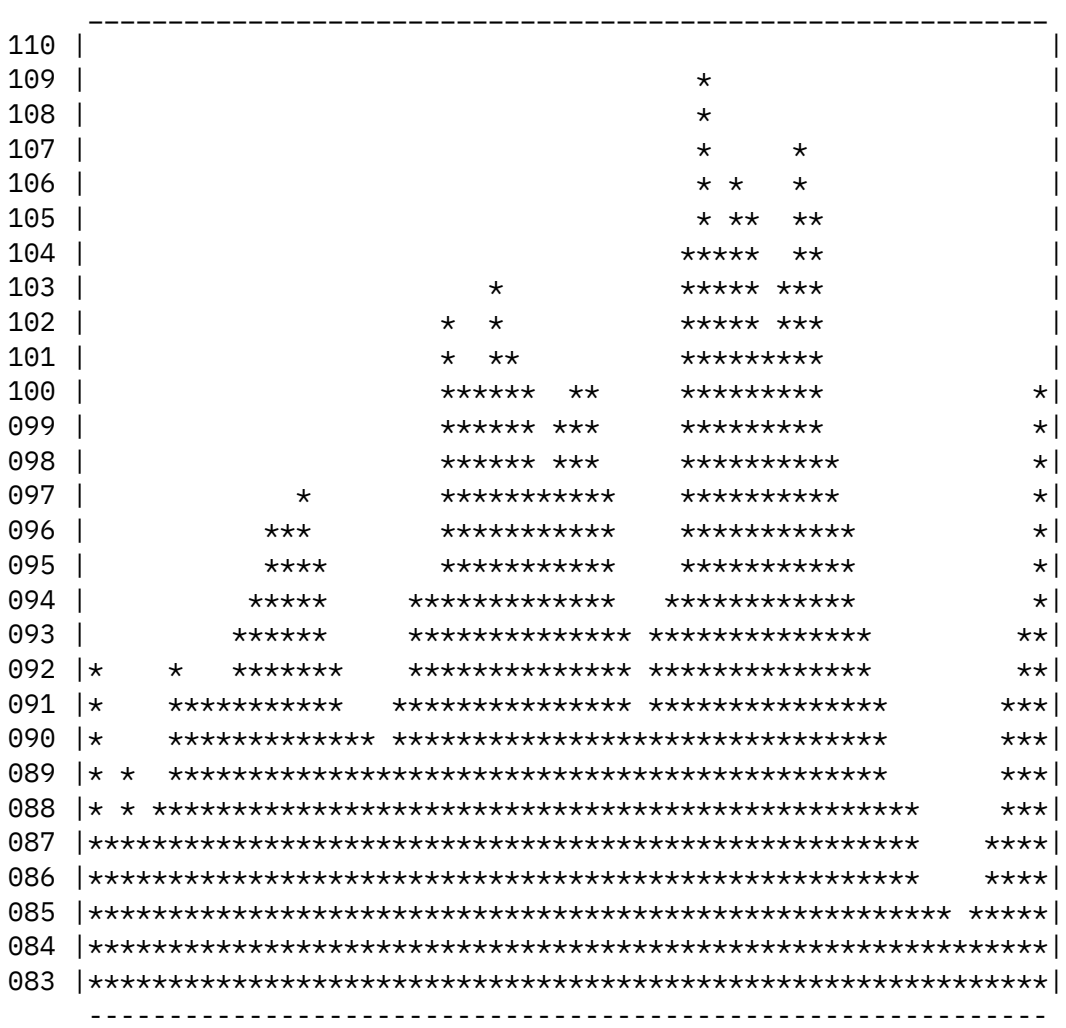


Chart Start: Day #297

GRAPHICAL ANALYSIS OF 90-DAY AVERAGE SOLAR FLUX

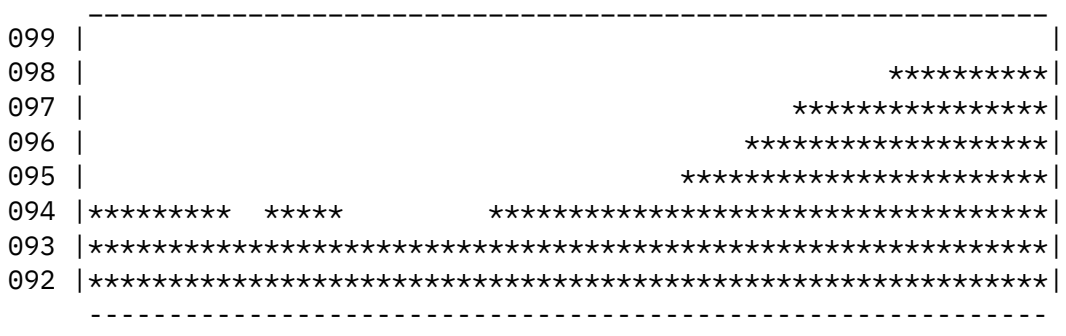
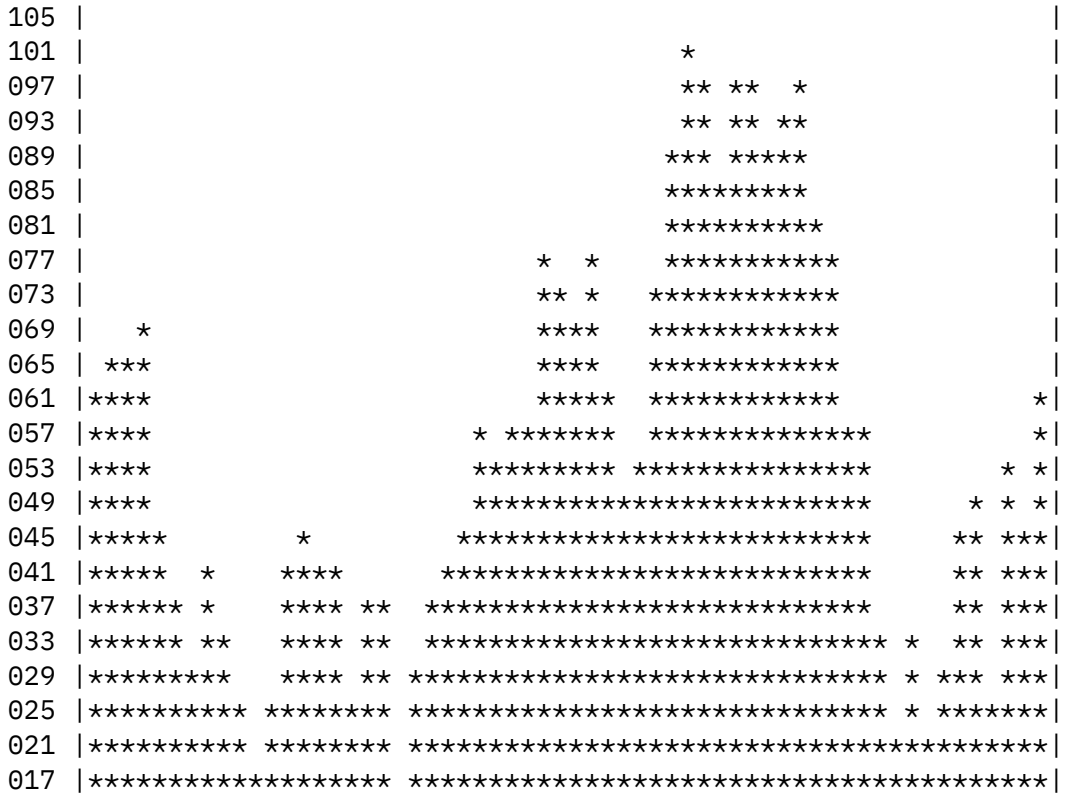


Chart Start: Day #297

NOTES:

The 10.7 cm solar radio flux is plotted from data reported by the Penticton Radio Observatory (formerly the ARO from Ottawa). High solar flux levels denote higher levels of activity and a greater number of sunspot groups on the Sun. The 90-day mean solar flux graph is charted from the 90-day mean of the 10.7 cm solar radio flux.

CUMULATIVE GRAPHICAL CHART OF SUNSPOT NUMBERS



```
013 |*********************************************************|
     ---------------------------------------------------------
                       Chart Start:  Day #297
```

NOTES:
The graphical chart of sunspot numbers is created from the daily sunspot number counts as reported by the SESC.

HF RADIO SIGNAL PROPAGATION PREDICTIONS (24 DEC - 02 JAN)

High Latitude Paths

CONFIDENCE LEVEL		Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun
	EXTREMELY GOOD										
	VERY GOOD										
	GOOD										
65%	FAIR	**	**	**	**	*			*	*	**
	POOR	*	*	*	*	* *	**	***	* *	* *	*
	VERY POOR						*				
	EXTREMELY POOR										
	PROPAGATION QUALITY	Given in 8 Local-Hour Intervals									

Middle Latitude Paths

CONFIDENCE LEVEL		Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun
	EXTREMELY GOOD										
	VERY GOOD										
	GOOD	***	***	***	***	***	**	**	***	***	***
	FAIR						*	*			
65%	POOR										
	VERY POOR										
	EXTREMELY POOR										
	PROPAGATION QUALITY	Given in 8 Local-Hour Intervals									

Low Latitude Paths

CONFIDENCE LEVEL											
	EXTREMELY GOOD										
	VERY GOOD										
	GOOD	***	***	***	***	***	***	***	***	***	***
	FAIR										
70%	POOR										
	VERY POOR										
	EXTREMELY POOR										

PROPAGATION QUALITY	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun
	Given in 8 Local-Hour Intervals									

NOTES:

NORTHERN HEMISPHERE		SOUTHERN HEMISPHERE	
High latitudes	>= 55 deg. N.	High latitudes	>= 55 deg. S.
Middle latitudes	>= 40 < 55 deg. N.	Middle latitudes	>= 30 < 55 deg. S.
Low latitudes	< 40 deg. N.	Low latitudes	< 30 deg. S.

POTENTIAL VHF DX PROPAGATION PREDICTIONS (24 DEC - 02 JAN)
INCLUDES SID AND AURORAL BACKSCATTER ENHANCEMENT PREDICTIONS

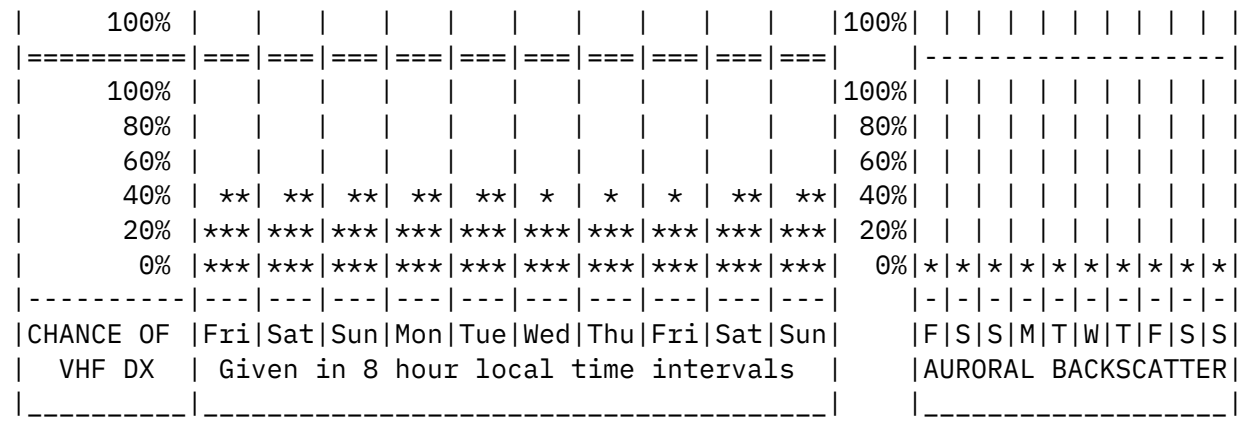
HIGH LATITUDES

FORECAST CONFIDENCE	Given in 8 hour local time intervals: Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	SWF/SID ENHANCEMENT: F	S	S	M	T	W	T	F	S	S
0%	***	***	***	***	***	***	***	***	***	***	0%	*	*	*	*	*	*	*	*	*
20%	***	***	***	***	***	***	***	***	***	***	20%	*	*	*	*	*	*	*	*	*
40%	***	***	***	***	***	***	***	***	***	***	40%									
60%	*	*	*	*	*	*	*	*	*	*	60%									
80%											80%									
100%											100%									
100%											100%									
80%											80%									
60%											60%									
40%	*	*	*	*	*	*	*	*	*	*	40%									
20%	***	***	***	***	***	***	***	***	***	***	20%					*	*			
0%	***	***	***	***	***	***	***	***	***	***	0%	*	*	*	*	*	*	*	*	*

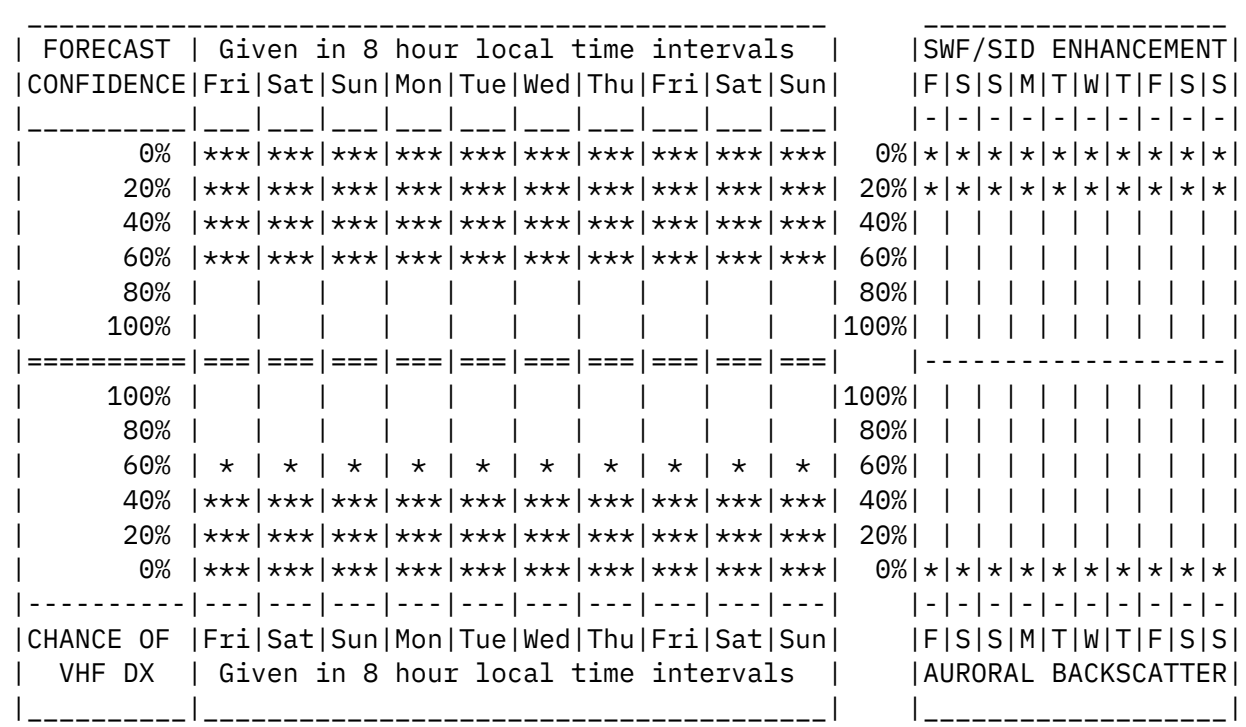
CHANCE OF VHF DX	Given in 8 hour local time intervals: Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	AURORAL BACKSCATTER: F	S	S	M	T	W	T	F	S	S

MIDDLE LATITUDES

FORECAST CONFIDENCE	Given in 8 hour local time intervals: Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	SWF/SID ENHANCEMENT: F	S	S	M	T	W	T	F	S	S
0%	***	***	***	***	***	***	***	***	***	***	0%	*	*	*	*	*	*	*	*	*
20%	***	***	***	***	***	***	***	***	***	***	20%	*	*	*	*	*	*	*	*	*
40%	***	***	***	***	***	***	***	***	***	***	40%	*	*	*	*	*	*	*	*	*
60%	***	***	***	***	***	***	***	***	***	***	60%									
80%											80%									



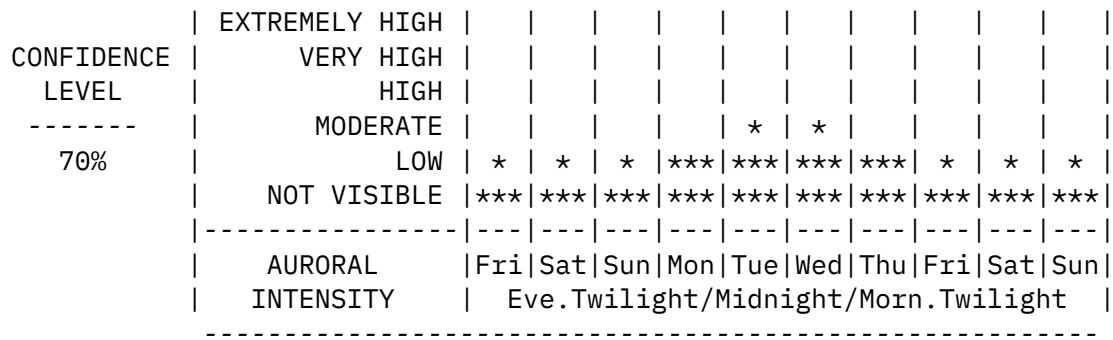
LOW LATITUDES



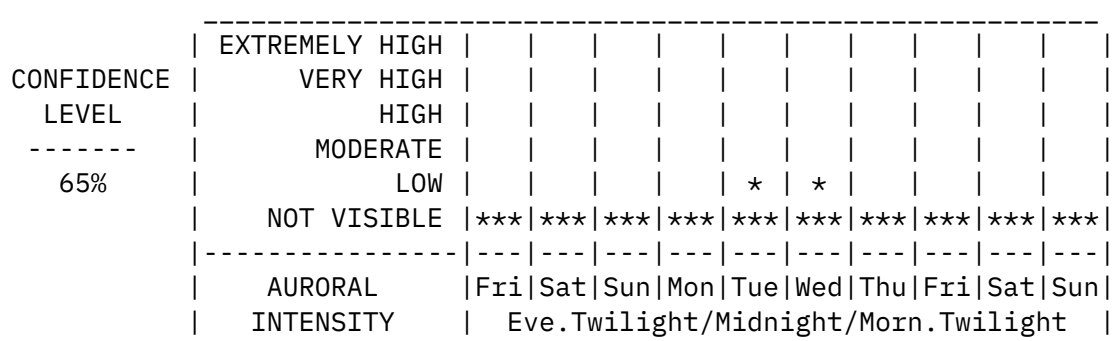
NOTES:
These VHF DX prediction charts are defined for the 30 MHz to 220 MHz bands. They are based primarily on phenomena which can affect VHF DX propagation globally. They should be used only as a guide to potential DX conditions on VHF bands. Latitudinal boundaries are the same as those for the HF predictions charts.

AURORAL ACTIVITY PREDICTIONS (24 DEC - 02 JAN)

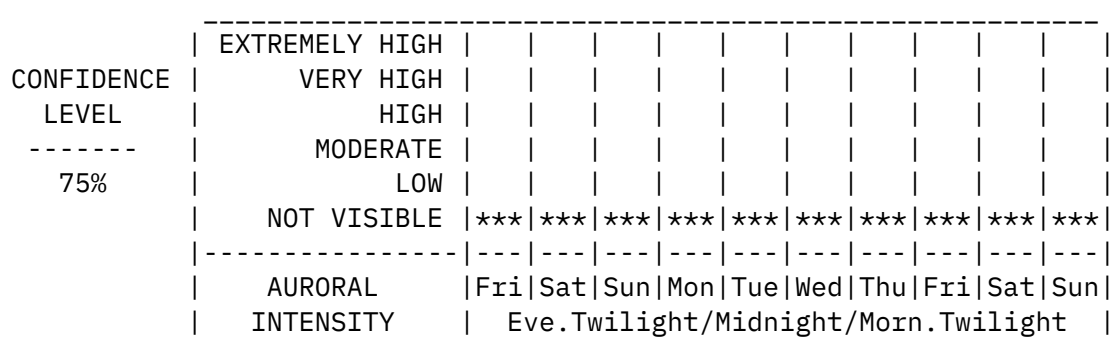
High Latitude Locations



Middle Latitude Locations



Low Latitude Locations



NOTE:
Version 2.00b of our Professional Dynamic Auroral Oval Simulation Software Package is now available. This professional software is particularly valuable to radio communicators, aurora photographers, educators, and astronomers. For more information regarding this software, contact: "Oler@Rho.Uleth.CA", or "COler@Solar.Stanford.Edu".

For more information regarding these charts, send a request for the document, "Understanding Solar Terrestrial Reports" to: "Oler@Rho.Uleth.Ca" or to: "COler@Solar.Stanford.Edu". This document, as well as others and related data/forecasts exist on the STD BBS at: (403) 756-3008.

** End of Report **

End of Info-Hams Digest V93 #1508
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